

From: [Oliver, Karen](#)
To: [Caudill, Motria](#); [Whipple, Wayne](#)
Cc: [Whitaker, Donald](#)
Subject: FW: Your thoughts on starting up paired tube/can sampling?
Date: Friday, March 28, 2014 5:46:39 AM
Attachments: [image001.png](#)

Hi Motria and Wayne,

With this opportunity for comparison of various air sampling methods at the refinery coming up soon, we were wondering whether there might be an opportunity to add some helium diffusive samples to the mix. Motria, you can let us know your thoughts on this as you are dealing with the refinery folks and probably have a feel for whether this would be adding too much complexity to the operation.

And Wayne, I'm not sure what your capabilities are on that front, but Doug Markle of Entech had mentioned in the past that they might be able to jump in and help out on a short term project like this.

Based on what the two of you think about this idea, I will be glad to bring Doug into the discussion –

Thanks!

Karen

From: Oliver, Karen
Sent: Wednesday, March 12, 2014 9:20 AM
To: Caudill, Motria; Whipple, Wayne
Cc: Whitaker, Donald; Lehrman, Loretta
Subject: RE: Your thoughts on starting up paired tube/can sampling?

Hi Motria,

We would prefer the option of collecting four pairs of samples (one tube + one canister) per week that you mentioned. Also, we will plan to deploy one Carbopack tube per “pair,” as we will only need to collect a limited number of duplicate tubes after all since we have now collected lots of duplicates during the Regional Monitoring effort.

With all of the continuing tube work this summer and our need to focus as well on our acrolein deliverable, we will not be able to analyze the cans but it sounds like from Wayne's email update that he can do that once he is a bit further down the road.

Also – just wondering who will be deploying the tubes for this effort? Wondering about the need for training is the reason for my question -

Thanks!

Karen

From: Caudill, Motria
Sent: Tuesday, March 11, 2014 12:19 PM
To: Oliver, Karen; Whipple, Wayne
Cc: Whitaker, Donald; Lehrman, Loretta
Subject: RE: Your thoughts on starting up paired tube/can sampling?

My QAPP will need to be updated once we agree on number of samples/locations/schedules. The existing QAPP covers the VOC canisters that were collocated with the passive tubes deployed in Granite City under the RARE/RM. I alluded to future work by saying: “After the Granite City, IL, study is complete, additional paired-sample monitoring will continue at multiple Chicago, IL and Hammond, IN sites, to be documented in a future version of this QAPP.” Shouldn't be any trouble to update, assuming that the tube work can still fall under the RARE/RM or maybe another program. (?)

I don't think we determined how many tubes & canisters per week. Our target was ultimately to get ~25 paired samples; this could be done with 1 pair per week or 4 pairs per week, depending on what Karen and Wayne could handle. I think of one "pair" as one tube + one canister, but it sounds like duplicate or triplicate tubes may be desirable. We were originally planning on only having tubes analyzed at ORD and canisters at R5-CRL, but of course I'm open to it if ORD can analyze canisters.

I know ORD and CRL are all very busy, so whatever you all can offer would be super! Let me know what would be realistic. Thanks!

From: Oliver, Karen
Sent: Tuesday, March 11, 2014 10:06 AM
To: Caudill, Motria; Whipple, Wayne
Cc: Whitaker, Donald
Subject: RE: Your thoughts on starting up paired tube/can sampling?

Hi Motria,

Thanks very much for the map. Here are a few questions for you since it has been awhile since we discussed this project:

- I think you have a QAPP in progress that would cover this rather than us working under the umbrella of the current Regional QAPP, is that correct?
- And I believe we were planning on three tubes and one canister per week so I wanted to confirm that as well.
- Also – just curious – do you have enough information at this point to make a decision as to which site you might like to focus on for the tube/canister comparison work?

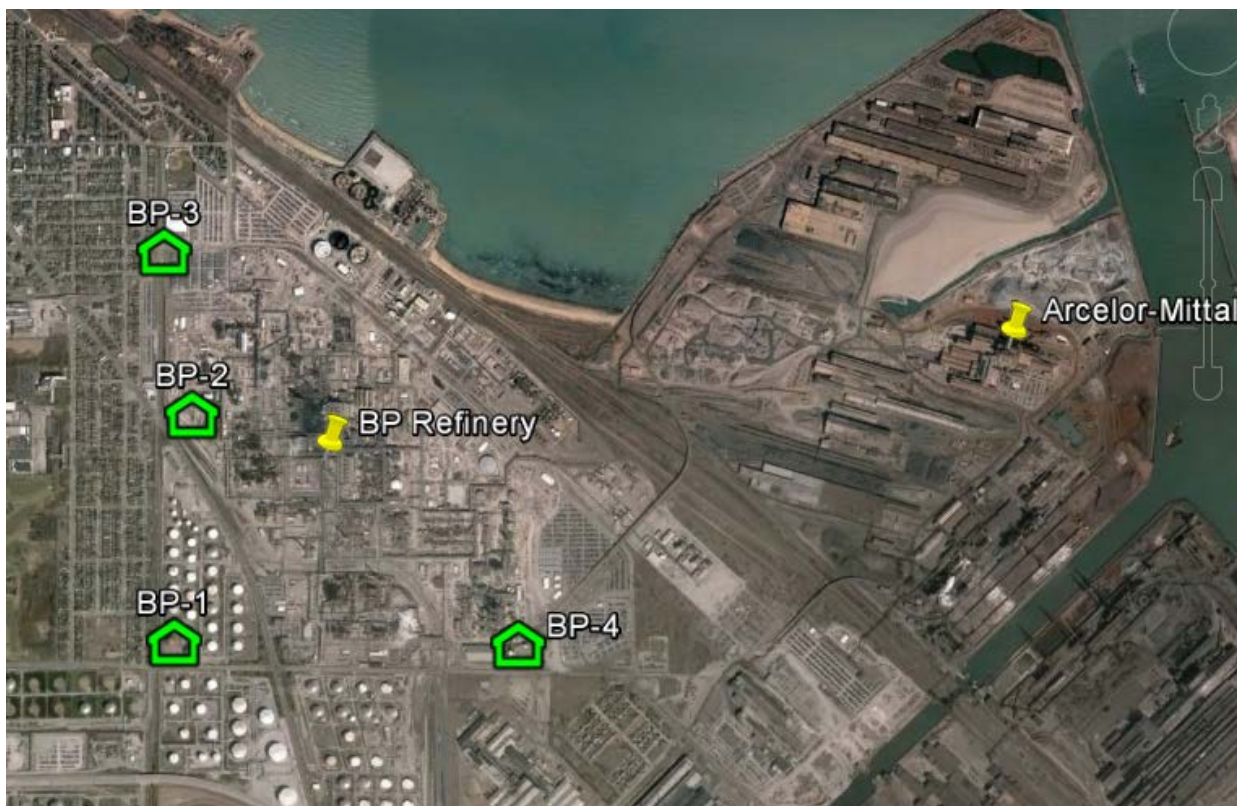
Thanks!

Karen

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From: Caudill, Motria
Sent: Tuesday, March 11, 2014 10:57 AM
To: Oliver, Karen; Whipple, Wayne
Subject: RE: Your thoughts on starting up paired tube/can sampling?

Okay, thanks. FYI, here's a map of BP's four fenceline sites. The two south ones are about 1 mile apart.



From: Oliver, Karen
Sent: Tuesday, March 11, 2014 5:56 AM
To: Caudill, Motria; Whipple, Wayne
Subject: RE: Your thoughts on starting up paired tube/can sampling?

Hi Motria,

We are discussing this here and will get back to you shortly.

Thanks!

Karen

From: Caudill, Motria
Sent: Monday, March 10, 2014 8:35 AM
To: Whipple, Wayne; Oliver, Karen
Subject: Your thoughts on starting up paired tube/can sampling?

Hello esteemed chemists – Have things settled down in your respective labs such that we could talk about starting a week-to-week comparison effort of tube/can samples? I checked in with BP-Whiting (northwest Indiana) and they have their fenceline system nearly functional. In addition to multiple auto-GC stations, it turns out they are also doing open-path VOCs. So we would be doing a 4-way method comparison!

Let me know what you think might be a realistic start date for paired sampling. The environmental engineer at BP is being very cooperative and I'm hoping to get something on her calendar.

Thanks!
Motria